

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

RECEIVED

06 SEP 2004

			WIPO PC				
Applicant's or agent's file reference P208175PCT DVR/jdo	FOR FURTHER ACTIO	Preliminary Examir	Transmittal of Internationa nation Report (Form PCT/	IPEA/416)			
International application No. PCT/NL 03/00517	International filing date (day) 15.07.2003		riority date <i>(day/month/yea</i> 5.07.2002	ır)			
International Patent Classification (IPC) or t	oth national classification and I	PC					
F03D1/04							
Applicant STICHTING ENERGIEONDERZO	EK CENTRUM NEDERLA	AND et al					
This international preliminary example in the Authority and is transmitted to the Authority and is transmitted to the Authority and is transmitted.	amination report has been pr e applicant according to Arti	repared by this Interna cle 36.	tional Preliminary Exar	mining			
2. This REPORT consists of a total of 5 sheets, including this cover sheet.							
This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
These annexes consist of a total of 1 sheets.							
3. This report contains indications	relating to the following item	is:					
I ⊠ Basis of the opinion				•			
II ☐ Priority				•			
III Non-establishment	of opinion with regard to nov	elty, inventive step an	d industrial applicability	<u>'</u>			
IV Lack of unity of inve	Lock of unity of invention						
citations and explan	Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
VI Certain documents							
	ne international application	- M*					
VIII Certain observation	s on the international applica	ation .					
Date of submission of the demand		Date of completion of this	s report				
13.02.2004		03.09.2004					
Name and malling address of the internal preliminary examining authority:	tional	Authorized Officer		Gentledas Patantage.			
European Patent Office		Avramidis, P					
D-80298 Munich Tel. +49 89 2399 - 0 Tx: 5 Fax: +49 89 2399 - 4465	23656 epmu d	Telephone No. +49 89 2	399-7317	S. Oliges among the			

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/NL 03/00517

 Basis of the report 	I. I	Basis	of	the	rep	ort
---	------	-------	----	-----	-----	-----

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages				
	1-21		as originally filed			
	Clai	ms, Numbers				
	2-31		as originally filed			
	1		received on 16.07.2004 with letter of 15.07.2004			
	Drav	wings, Sheets				
	1/15	-15/15	as originally filed			
2.	. With regard to the language , all the elements marked above were available or furnished to this Authority language in which the international application was filed, unless otherwise indicated under this item.					
	The	se elements were ava	ilable or furnished to this Authority in the following language: , which is:			
			nslation furnished for the purposes of the international search (under Rule 23.1(b)).			
			cation of the international application (under Rule 48.3(b)).			
		the language of a train Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under			
3.	With	n regard to any nucle o rnational preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:			
		contained in the inter	national application in written form.			
		filed together with the	e international application in computer readable form.			
		furnished subsequen	tly to this Authority in written form.			
			itly to this Authority in computer readable form.			
		in the international ap	ne subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.			
		The statement that the listing has been furni	ne information recorded in computer readable form is identical to the written sequence ished.			
4.	The	e amendments have re	esulted in the cancellation of:			
		the description,	pages:			
		the claims,	Nos.:			
		the drawings,	sheets:			

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No.

PCT/NL 03/00517

This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

1-31 Yes: Claims Novelty (N)

Claims No:

1-31 Yes: Claims Inventive step (IS)

No: Claims

1-31 Yes: Claims Industrial applicability (IA)

Claims No:

2. Citations and explanations

see separate sheet

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The present invention relates to a method and an assembly by means of which energy can be extracted from flowing fluid according to the preamble of claim 1 and claim 17 respectively.

Optimisation of a multirotor wind energy system has been discussed, for example in XP008022904 (D1).

Wind farms are expensive and therefore it is important that the production of the farms is high in order to justify the cost. Due to interference the production of the subsequent wind turbines is lower compared to the upstream turbines (shadow loss).

The object of the invention is to reduce the shadow effect or interference which causes the shadow loss and consequently increase the production of the wind farm.

With the characterising features of claim 1, i.e. that guiding devices feed fast flows that are not too far away from the assembly through the wind farm, the production of the whole wind farm can be increased.

None of the prior art documents which have become known to this Authority discloses all the features of independent claim 1.

Furthermore, the solution to the above mentioned problem in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) since it is not taught or suggested by the prior art documents.

Claims 2-16 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

Independent claim 17 claims the corresponding assembly and claims 18-31 are dependent on claim 17 and as such they also meet the requirements of the PCT with respect to novelty and inventive step.

INTERNATIONAL PRELIMINARY International approximation REPORT - SEPARATE SHEET

International application No. PCT/NL03/00517

Therefore, the present application meet the requirements of Article 33(2) and (3) PCT, because the subject-matter of claims 1-31 is new and involves an inventive step.

Further remarks:

The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).



5

EPO - DG 1

1

16.07,2004



New claim

Method for extracting energy from a flowing fluid, in particular from (sea)water 1. and/or wind flows, using an assembly of devices positioned close to one another, characterised in that a guiding device of said assembly is set with respect to said fluid flow in such a way that as a result forces with a component perpendicular to the undisturbed direction of flow are exerted, such that fluid with higher kinetic energy or with lower kinetic energy, compared with the normal situation in which said force component is lacking, is guided through an energy-extracting device of 10 the assembly.